

## Flight Summary MACPEX 21 APR 2011

### General Information

**Flight date-** 21 APR 2011

**Flight duration** – 5.6 hours

**Crew** – EHR/DOM

**Instruments flown:** 2DS, ALIAS, CPI, CIMS, CLH, DLH, FCAS, FCDP, FISH, HARHAL, HARWV, HVPS, JLH, MMS, NMASS, O3, O3LITE, PALMS, SID3, ULH, SP2, VIPS

1430	<b>Takeoff</b>	2002	<b>Land</b>
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### Flight Log

#### Engine

**Start** 1412

<b>Data Rec</b>	1415	<b>Begin</b>	1913	<b>Landing</b>	2002
<b>On</b>		<b>Descent</b>			

#### Gear extension/retractions

<b>Gear Up</b>	1430
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<b>Gear Down</b>	1930
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### Weather Observations

Ascended through broken could layer at 2,000-4,500 departing EFD.

Limited could cover on approach to Eastern initial point for SGP over flight. During brief over flight at FL310 entered wispy layer briefly. Experienced light turbulence at 14nm East of SGP. Appeared to be between cirrus layers at SGP.

Patchy cirrus at FL280 from Western SGP point to first Southern Point at about 22nm out.

Deviated around thunder storms on way to Southern Point 3 FL280.

Appeared to be under cloud layer from SP3-SP4 until a little more than mid leg. At 162 nm from SP4 into bottom of storm blow off.

Ascended into Eastern side of storm tops at FL420.

### Flight Profile

Transit to range was difficult as progressive ATC controllers appeared less able to work our requests.

At Eastern SGP point we were directed to descend to FL330 by ATC. After getting cleared to proceed on course at that altitude, ATC put us into a holding pattern. ICE09 had similar problems coordinating with ATC and decided to RTB.

Final clearance on course and about mid way on first leg allowed to descend to FL310. After SGP-W we were directed to FL280 and not allowed to change altitudes for remainder of data legs.

Ascended to FL560 in route to Balloon site.

Spiral decent (approx 5 nm radius) to FL4000. Vectored to EFD RTB.

MMS maneuvers accomplished at 15:09 for Yaw and Pitch , Box maneuver was not ever accomplished as we could not get cleared by ATC to loiter at any point.

### **Instrument Notes**

SID3 start up difficult due to connection problems. Black screen on SID3 START and Windows Screen did not completely raster the video so no soft buttons available.

Several attempts some result.

Cycled the KVM from PRI to SEC and back. Restarted SID3 successfully.

HARVWV fail at 14:46. Reset 1X

HARVWV fail at 16:27. Reset 1X

HARVWV fail at 17:47. Reset 1X

HARVWV fail at 19:10. Reset 1X

HARVWV and HARHAL fail below 4,000'. No action per checklist.